

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
Subject: [491] 10 meter DSB Transmitter
Message-ID: <v03007803ae701e19fa96@[132.235.72.11]>

Gang,

A good friend of mine, KA8ZYP, Mike Schlosser, "forced" me to take a box from his collection of treasures. (Read: Junk box)

In it was two circuit boards for a 10 meter double sideband transmitter. The parts are all there, the only thing missing is a schematic.

Apparently the circuit is in a June issue of 1992 73's magazine. I would gladly drop few "green stamps"(\$) to anyone who could supply me with a copy of this article. OR, is there a FTP or web site that might have this schematic?

Thanks in advance:

NS80 Greg

weinfurtner@ouvaxa.cats.ohiou.edu
<http://ouvaxa.cats.ohiou.edu/~weinfurtner>

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: BOB KELLLOGG <ae4ic@nr.infi.net>
Subject: [549] 40-9er Contest Rules(Long)
Message-ID: <199609270331.XAA02238@mh004.infi.net>

OK, Gang, here are the rules and scoring for the 40-9er contest. A lot of your suggestions were considered, and many incorporated. The object will be to make as many 40-9er contacts as possible and have fun. The scoring will encourage participation by all.

Some very fine prizes have been donated for the winners.

This will be our contest, because the only publicity will be through the QRP-L. If your club made 40-9ers as a project, be sure to publicize the contest.

There is still time to buy and build a 40-9er before the contest. Contact Jim Cates, wager@juno.com for details. Crystals are available for two frequencies, 7.040 and 7.112.

Also, there are many versions of the 40-9er with output that ranges from 250mW to 1.5W. They are all 40-9ers.

-----40-9er Contest Rules-----

DATES/TIME

The contest will be held over 5 day period, Monday, November 11, through Friday, November 15th, 1996. Time will be 0100Z to 0300Z each night. You may operate a maximum of 6 hours.

FREQUENCIES

7.040+/-, 7.122+/-

EXCHANGE

The exchange will be RST, State/Province/Country, a 2 letter rig code and Power. The Rig Codes we will use are below. Home Brew, HB, will have to include various combinations of separate receiver and transmitter kits as well as strictly home designed equipment. If I have missed an important rig, let me know and we will add to the list.

Rig Codes:

40-9er	=49
A & A	=AA
Green Mtn	=GM
Home Brew	=HB
Heath HW-7	=H7
Heath HW-8	=H8
Heath HW-9	=H9
Icom	=IC
Index Labs QRP+	=IL
Kenwood	=KW
LCK	=LC
MFJ	=MF
NorCal 40	=NC
NorthEast	=NE
NorthWest	=NW
Oak Hills Expl.	=OE
Oak Hills 400	=O4
Oak Hills 100	=O1
Oak Hills Sprint	=OS
Oner	=ON
Sierra	=SA
Small Wonder	=SW
Ten Tec	=TT
Wilderness Radio	
Sierra	=WS
40A	=WA
Yaesu	=YS

What we tried to do here is specify the QRP kit rigs and just name the commercial rigs, ignoring the various models.

SCORING

4. Scoring:	Points
40-9er to 40-9er	6
40-9er to QRP (40-9er on either end)	4
QRP to QRP	2
QRO to QRP or QRO	1

Multiplier = states/provinces/countries worked.

AWARDS

(1.) The Operator who makes the most contacts using a 40-9er will receive a brand new Small Wonders Lab SWL-40 kit (NE-4040) donated by Chuck Adams.

(2.) The operator who makes the most 40-9er contacts while operating any other rig will receive a 40-9er kit donated by Bob Kellogg.

(3.) The operator who earns the highest score will receive a 1 year subscription (or extension) to QRPP, donated by the NorCal club through Doug Hendricks.

(4.) The operator who earns the second highest score will receive a 1 year subscription (or extension) to QRPP, donated by the NorCal club through Doug Hendricks.

(5.) The operator who earns the third highest score will receive a 1 year subscription (or extension) to QRPP, donated by the NorCal club through Doug Hendricks.

One person may win only one award. In the event that one person qualifies for more than one award, they will receive the one of greatest value. In case of ties, a coin will be flipped. The contest chairman (me, Bob Kellogg) may participate, but will not be eligible for awards.

REPORTING

Send your logs before December 15, 1996 to:

Bob Kellogg, AE4IC

4708 Charlottesville Rd.

Greensboro, NC 27410-3622

Include a S.A.S.E. if you would like a copy of the results. (Results will be reported on QRP-L)

Also include the following summary (please print):

Name:_____Call:_____

Address: _____
City/State/Zip: _____
Rig and Rig Code: _____
Antenna: _____
Power Source: _____

Score:

Total 40-9er to 40-9er contacts	_____	X 6 =	_____
Total 40-9er to QRP contacts	_____	X 4 =	_____
Total QRP to QRP contacts	_____	X 2 =	_____
Total QRP to QRO or QRP contacts	_____	X 1 =	_____
			=====
	Total Points =		_____

Total S/P/C multipliers _____
Times Total Points X _____ = Final Score _____

CUL,
Bob Kellogg, AE4IC
Probably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: ukii@megsinet.net (ukii)
Subject: [534] 40-9er results.
Message-ID: <01BBABD0.12ED27E0@dial123.megsinet.net>

First, let me express my great pleasure in being associated with such a great group of knowledgeable, polite, generous, friendly, spirited, etc etc, people.

I was having trouble with my first kit, the 49er and had help from too many people to write back directly, so I give a big KUDO to all of you here. Thank you!

Now, what are my results...

Well, I followed recommendations from many of the guys, and rechecked this and that. Rechecked parts placement etc, all was fine. The original problem was the final amp was cooking and I had a few replies about self oscillation. I bent one of the RFC's which was too close to another one and that stopped the problem right there! I don't remember the number, but it's the RFC that doesn't line up exactly with the holes in the board. Now, after that was solved, I still couldn't hear much except for some BC signal. Since I have only a temporary antenna out the window I quit. Yesterday, I ran a wire out to the downspout and loaded the gutter system up. I was hearing a lot of CW, but didn't give too much time trying to make a qso. I will shortly have my dipole back up

and will let you all know who I work first (if anyone!)

I read with great interest about the rx/tx not being offset,
so I will follow the one guys advice and rx up a little.

Anyway, thats the scoup. The 49er is in a plastic box, with a hole above the
tuning cap. I took a knife and made a small hole in a tiny wirenut, thats what I
use to tune it, from outside the case. Maybe someone can give
me a better idea...?

So, I thank you all for the constuction techniques and
troubleshooting tips. All of the mail was really helpful and I appologize
for not being able to reply back to each one directly.

Best 73 de john
N9UKX

First one to work me on my 49er gets a sixpack of Jolt!

THE SMELLING IS MY PISTAKE

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [483] 80M and Modems
Message-ID: <199609261041.KAA28873@chuck.dallas.sgi.com>

Gang,

Well up early and doing a whole bunch at once. I think we call
it multiplexing.

I'm reading the email and printing on the printer and I say "what the
heck" let's call CQ on 80M. Turn the dial to 3.560MHz and push #1
button on the CMOS III and *pow* the modem locks up. Hmmm. Say it
ain't so. "It ain't so" comes back the crowd.

OK, let's do this scientifically. I go through all the control+
sequences on the terminal and finally power cycle the modem. Try it
again and sure enough when I transmit the modem locks up. So
for those of you with a US Robotics Sportster(tm) 14,400 Fax Modem
you may have a problem. I know that I do. I knew that 1.5W was
too much power. :-)

So sometimes you can't do computers and ham at the same time.

Looks like it for me this trip. Learn something new everyday.

He with the most QSOs when he dies wins.

..

SIG

Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com

EMPS QSOs=0 STATES(w/c)=0/0 DX=0

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: KB0PJE /5 Jack Dougherty <jdougher@wt.net>

Subject: [543] 80M CW Net Protocols?

Message-ID: <324B44D8.3F2C@wt.net>

I finally found some traffic on 80M tonight. Obviously a net, but I have no idea what or how the flow is in a CW net, so I shied away from joining, as I didn't want to mess up those guys. The net was VERY well done with smooth exchanges, but also pretty intimidating, as I only understood the occasional "GE", call signs, and "73". Can someone steer me to where to do some reading/get educated about:

I hear the net control guy sending 9RN 9RN, what's that??

I hear some XL and CY and KYN being sent often, what's that?

I looked in the '96 handbook, but that was no help except for the QNx series. Where to find the other stuff??

The net was on 3.641 at 01:00 UTC if that's any clue.....

Thanks CW NETsters,

KB0PJE /5

Jack /Houston

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: JUKKA AHLGREN <JUKKAA@jypoly.fi>

Subject: [478] 80mH coil fot the 40-9er

Message-ID: <s24a52ab.087@jypoly.fi>

Hi, everyone!

I'm building a 40-9er, but one part is missing.

It's the 80mH coil. Can't find any here in Finland, so is there anyone who can help me finding one (or tell me how to make it from a surplus stuff)?

I've got all the other parts including "the original" Altoids box! My brother lives in the U.S. (WI) and he brought it to me. It was a little hard to explain, why I need those particular candies, hi! BTW, I liked the taste! I also found an old Strepsils box, which is almost as good as the Altoids case.

73,
Jukka OH6SC/OH8NGF (jukkaa@jypoly.fi)

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Michael Connor" <mikec@primenet.com>
Subject: [536] ? for Ten-Tec gurus
Message-ID: <199609262300.QAA09248@primenet.com>

Gang,
What is a TenTec Model 544?
Whats it worth?
I happened across one, but dunno what it is.

Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [528] address
Message-ID: <324A8A3A.2297@pacbell.net>

Does anyone have Bill Kelsey-N8ET (kanga US) E-mail address??
The one I have does not work.
Thanks rich wd6fdd..

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Joe Gervais <vole@primenet.com>

Subject: [535] Antenna Analyzers: SUMMARY
Message-ID: <199609262256.PAA16479@primenet.com>

Howdy All,

Wanted to say a collective "thanks much" to everyone who gave me input on the antenna analyzer (MFJ vs. Autek, etc).

The good news is that I had two dozen responses(!). The bad news is that I'm too swamped at the office to thank everyone individually, so please don't be offended. The info was greatly appreciated.

Votes were overwhelmingly for measuring the resonant frequency at the feedpoint, then measuring again from your station as a sanity check.

Here is a summary of the input I received:

Autek RF-1

- 1) Small, less expensive.
- 2) Wide impedance range (a few ohms up to 1500 ohms).
- 3) Measures inductance and capacitance.
- 4) Reliable piece of gear.
- 5) HF only (VHF coverage requires a seperate unit).

MFJ

- 1) Coverage from HF to VHF.
- 2) Better display (more info visible simultaneously).
- 3) Analog meter makes it easier to observe peaking, nulling, etc.
- 4) Can be used to read external frequencies.
- 5) Larger and a bit bulky for field use.

- 6) Some flaws reported, but generally fixed under warranty replacement.
(Example - Some boxes suffer from "hand capacitance" - reading changes significantly depending on where you touch the unit.)

Misc

- 1) Try a noise bridge instead.

That's it. At this point I'm leaning toward the Auttek due mainly to size (and price, a bit). Think I'll try to borrow both units for a test run just in case.

Thanks again to everyone. QRP-L is clearly the friendliest, most helpful groups on the 'Net. Gotta love it.

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPion #7

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [505] Bare Essential for 80M & 40M
Message-ID: <1996Sep26.115130-0400@[130.113.234.7]>

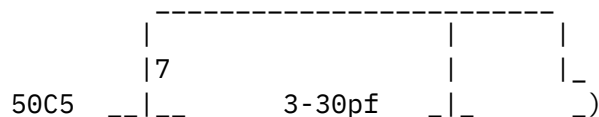
Sorry Stan, this "bare essential" thing got going here, and its just going to have to peter out here.

This was my first rig, still have it, (afraid now to plug it in) and saved the schematic. I'm aghast at how it was built, and how dangerous it is: one side of the A.C. line is connected to ground. But it did work, and netted many, many contacts. And its almost QRP: 10 - 15 watt

I used selenium rectifiers, and didn't seem to need any surge protection, but if you use silicon rectifiers, you might want to put in some resistance in series with C1, the 40 uf/450 volt capacitor.

With those warnings, here it is (turn off your proportionally spaced font):

plate = 7, screen=6, grid=2,5, cathode=1, filament=3,4



"Build the QRP Midget"

Author is J. White Popular Electronics Vol.27 pages 51-52 July 1967

The library however, did NOT have Popular Electronics in their stacks during the mid 1960's, so I don't know for sure if either of these two is exactly the one under consideration.

Now that you know the volume, page, month and year, you can go to YOUR library and hopefully somewhere, one will have these issues. I can request an inter-library loan here and I will be sent (\$1/page) photocopies of the articles. It's not the expense, it is that this can take up to 5 or 6 weeks to get the photocopies here.

Frankly, they BOTH sound interesting. I hope one (or more) of you will follow up on this. There is nothing so magical as the glow of a vacuum tube rig while the cold winter wind is howling outside the shack. Yeah, I know. I'm waxing nostalgic in my old age. I can't help it. I cut my teeth, so to speak, at a 108kw exp FM station running a 1938 vintage Western Electric transmitter - the first stereo FM in the US in the mid 1960's. You wouldn't believe the glow of 4 banks of 3 per bank, (1 bank hot spares) of mercury vapor rectifiers (866's) pulling from a 440 3/ph circuit to power that monster.

Talk about QRO !!

Well, back to QRP, though. If someone doesn't locate these issues of Popular Electronics in the next day or two, I will make a special trip up to one of the local university libraries. I'm likely to find them there.

This is starting to look like fun! I really need another project or two. Hmmm. I wonder what it would take to come up with a screen grid modulator? 80 mtr AM, anyone?

Peak the grid, dip the plate, and don't let your filaments get cold.

Bruce Barley KB0PZD ex:WD0HRQ
lbbarley@feist.com qrp-1 #69

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [542] Bare Essentials
Message-ID: <Pine.SUN.3.91.960926185930.3419B-100000@kitsune.swcp.com>

Hi All, I wanted to thank everyone that responded to my request for info

on the 50C5 xmtr. Should be receiving some schematics in the mail soon.
I'm going over to the local electronic surplus joint and try to buy some
7.040 xtals! If anyone is interested in a copy let me know and I will
send you one. Thanks again. Tom WB5QYT qrp-l # 640

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: bhopkins@polarnet.com (Bruce Hopkins - KL7JAF)
Subject: [482] Bare Essentials Follow Up
Message-ID: <v01540b01ae6ff4862f60@[204.119.24.121]>

Hi Again Gang...

In going over some previous posts I found reference to the "Bare
Essential" radio using a 50C5 tube... That post has the article appearing
in the Oct 1994 issue of CQ magazine... Can someone with back copies of CQ
take a bleary eyed squint at that issue and report back to the troops???
Perhaps it is a reprint of the original article...

72/73/oo's - Bruce * KL7JAF

QRP-L #380	QRP-ARCI #9061	G-QRP #9181	Norcal #1543	ARS #14
ISSB #14548	TFO #359	McPig #003	AK-QRP #1	

QRP Web Page: <http://www2.polarnet.com/~bhopkins>

"Every Man should learn to play the Flute,
but not well..."

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>

Subject: [538] BRAVO QRP ARCI!!!

Message-ID: <9609262320.AA15992@wizard.ucs.sfu.ca>

Hi Everyone,

Just received my certificate for the '95 Holiday Spirits Homebrew Sprint. Next to it, my certificate for the '96 ARRL International DX Contest looks like a piece of ____ (appropriate negative pronoun left to the imagination and creativity of the reader.). Wish you guys could teach the ARRL a thing or two. Thanks very much guys. You are a class act.

cheers, Paul

VE7CQK

email: paul1@wizard.ucs.sfu.ca

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: Ng Heng Lee/Ghee <leeghee@singnet.com.sg>

Subject: [514] cw software with external keying function

Message-ID: <Pine.3.89.9609270124.D10484-0100000@merlion.singnet.com.sg>

hi gang, i have been using morse tutor release 2.6b to practise cw. i read the .doc file and found out that this software can accept external keying via a morse key. all i need to do is to connect the key to the bit 0 (pin 2) of the parallel port and execute the software by typing

c:\morse /e

the /e enable external keying. but i try by shorting pin 2 and Gnd but no sound nor letter appear on the screen. worse of all, the .doc did not said which screen i am suppose to go to after running the software. does anyone encounter this problem before ? is there any software that allow external keying. for a beginner like me, it really help if i can found a software that enable me to send cw onto the screen. thanks.

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>

Subject: [492] EMPS and MISC.

Message-ID: <9608268437.AA843750564@smtpgw.ccgate.dl.nec.com>

Chuck and gang:

When is the "official" start of the EMPS? I listened to 80 early am and the QRN was pretty tame here in

the D/FW area.

Like Chuck, haven't done much on 80 since the early Novice days, but looking forward to lots of 40 and 80 work this fall and winter season.

Can turn the FT-840 down to 3w on both 40 and 80 and the 100' longwire tunes pretty well on 80, so it looks like I'm ready to play.

OK - NET COPS, THE NEXT IS NON-QRP - SO PLEASE DELETE THIS FROM HERE ON. AND SAVE YOUR FLAMES FOR THE BURGERS ON THE GRILL. THANKS.

Has anyone noticed that the FCC call database available from U of Ark and others has not been updated since 9/22 at 10 pm?? Maybe this has something to do with the Vanity Calls and tidying up the calls for vanity issue?? Rumors say 2-3 weeks before we'll see the first batch of Gate 2 vanity calls. I sure wish I could find out more about the process procedures on this. No one seems to know too much about it.

73 de Dave AC5GY

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [533] FCC Vanity Gate 2 - FCC Day-One (Septemb
Message-ID: <199609262217.PAA27799@primenet.com>

Forwarded for information.

72/73 de Roger AA7QY

>Date: Thu, 26 Sep 1996 16:20:00 -0400
>From: "Jahnke, Bart, KB9NM" <bjahnke@arrl.org>
>Subject: FCC Vanity Gate 2 - FCC Day-One (Septemb
>To: "'arrl-ve-list'" <arrl-ve-list@majordomo.netcom.com>
>Sender: owner-arrl-ve-list@majordomo.netcom.com
>Errors-To: owner-arrl-ve-list@majordomo.netcom.com
>Precedence: bulk
>Reply-To: "Jahnke, Bart, KB9NM" <bjahnke@arrl.org>
>X-misc: To unsubscribe, send a message to listserv@majordomo.netcom.com
>X-misc: with the body "unsubscribe arrl-ve-list"
>X-UIDL: 0d01ca7f3703208cbc5ac9d744c22e4e

>
>
>
>FCC Vanity Gate 2 - FCC Day-One (September 23rd) Receipts Status to Date
>
>FCC Gettysburg reports today that they have received to date from Mellon
>Bank 4,184 paper applications that were filed as of September 23rd--day one
>of Vanity Gate 2 (the gate which opened for Extra class licensees and Extra
>class club license trustees). FCC also reports receiving 339
>electronically-filed Gate 2, day-one applications.
>
>This brings the total of Gate 2, day-one receipts to 4,523 (to date).
>
>Note: This may NOT yet be the total Gate 2, day-one receipts from Mellon
>Bank. FCC says it has not yet begun receiving September 24th applications
>from Mellon Bank--so more September 23rd receipts may still be forthcoming.
> This should, however, represent the total of all electronically-filed Gate
>2, day-one (September 23rd) receipts.
>
>FCC said that new Vanity call sign grants for Gate 2 may be forthcoming in
>about two weeks--depending in part on the final total number of applications
>that were filed for Vanity Gate 2, day-one receipt.
>
>FCC once again reaffirms that NO Gate 2 call-sign grants will occur until
>ALL day-one receipts are entered into their system queue--and at such time
>they will begin making grants from the queue in a random sequence. FCC also
>confirms that NO Vanity Gate 2 grants have occurred to date (checking with
>the FCC on scattered rumored grants have so far shown them to all be Gate 1
>applications, or non-existent [BJJ]).
>
>For an example of the Vanity application flow at FCC, here are Vanity Gate 1
>and Gate 1A receipt numbers for the 9 business days prior to September 23rd:
>
>Date Receipts
>9-10 51
>9-11 15
>9-12 24
>9-13 20
>9-16 43
>9-17 9
>9-18 35
>9-19 51
>9-20 161
>
>=====

>	
>73,	
>	

>Bart J. Jahnke, KB9NM
>Manager
>ARRL/VEC
>
>bjahnke@arrl.org
>
>

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [516] For Dr E Leon
Message-ID: <199609261744.SAA24984@mail.enterprise.net>

Sorry for the bandwidth. Have sent two emails, both returned, 'user unknown'.
--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: johnhill@freenet.edmonton.ab.ca
Subject: [488] Fort lauderdale...Help
Message-ID: <Pine.A32.3.91.960926062106.73162A-100000@fn2.freenet.edmonton.ab.ca>

Would someone in Fort Lauderdale Florida please look in their Yellow Pages and let me know if Sunair Electronics Ltd is still in business and forward their address, please. One of their antenna tuners fell into my lap and I'd like to know more about it.

Thanks in advance...73...de VE6CU...

email: johnhill@freenet.edmonton.ab.ca

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: AE0Q / V31RY <v31ry@ix.netcom.com>
Subject: [509] FS: MFJ-9040 and MFJ-9030

Message-ID: <2.2.16.19960926111315.29b747dc@popd.ix.netcom.com>

For Sale: MFJ 9030 and MFJ 9040 with
joined cabinets (can be easily
separated for individual operation).
This set includes the companion
battery pack/power supply along with
manuals, one internal keyer and one
filter. \$285 and I'll pay the
shipping. Roger J. Wendell WB0JNR
(303) 693-4244 aq328@freenet.uchsc.edu

Please reply to Roger directly, I'm just posting it for him..

73 -- Glenn AE0Q/V31RY

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Patrick Franzis <franzis@gdc.com>
Subject: [524] FT-7 info: Thanks!
Message-ID: <Pine.SUN.3.91.960926153300.28674A-100000@esun212>

I wanted to thank everyone who replied to my question regarding
this rig, Overall, good impressions but most agreed that for cw it has
some short comings.

I'll keep searching for that great but cheap rig :-)

What a great group!

-Patrick N10CJ

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Bruce Robertson <brucerob@chass.utoronto.ca>
Subject: [496] Glowbugging
Message-ID: <Pine.SGI.3.91.960926092256.17117C-100000@chass.utoronto.ca>

Autumn must be the season which summons nostalgia, when hams say "I have fallen into the sere, the yellow leaf," for a good number of postings regarding hollow-state qrp have come of late. Two things to note for someone who wanting to relive his youth or (as in my case) relive others' youths:

1. There is a mailing list for this topic on theporch.com. The thing is I can't remember how you subscribe. You might try listserv@theproch.com and put 'subscribe glowbugs' in the body of your letter.

2. I have compiled a Glowbug bibliography from the postings to that group. It is available at:
<http://www.epas.utoronto.ca:8080/~brucerob/glowbugs/glowbugs_bib.html>
I have most of the articles photocopied and could make arrangements to send something you really need.

72, VE3UWL

Bruce G. Robertson Dept. of Classics, U. of T.

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: KT3A@aol.com
Subject: [523] Ground Rods (short)
Message-ID: <960926162301_530509397@emout15.mail.aol.com>

The standard we (USAF) use for a ground rod; If the connection is going to be made beneath the ground (dirt), it must be welded. We use an exothermic weld. They are a lot of fun, if you like bright light and sparks. They are lit with a flint spark tool. We need a permit from the Fire Dept to do just one. Lots of safety things to watch for. They do not usually come apart during a lightning hit. We're told they become stronger. Believe it or not.

For most of us, a clamp will do. Just check your connection annually.

72,
Cam

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: eleon@msu.edu (Dr. Edgar Leon)
Subject: [515] Hello From Edgar
Message-ID: <v0153050aae709016fe87@[204.22.210.53]>

Hi Guys:
I'm testing this system to see if I can get my messages on the list.
Testing ..__ .. ?? Beep Beep
Edgar WR8Z

Edgar Leon
eleon@msu.edu
Michigan Department of Education
Migrant Education Consultant
(517)373-4582 Fax:(517)373-4589

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [522] Hello From Edgar (fwd by ZjL)
Message-ID: <Pine.OSF.3.91.960926143351.27331A-100000@saturn.acs.oakland.edu>

Here's a note from a new member of QRP-L!

I don't suggest that EVERYONE do this, but if you are new to the QRP-L and have decided this is what you want to do with your spare time, send an introduction note! Maybe put "INTRO:" in the subject line so folks could delete as desired?

73 =paul= wb8zjl

----- Forwarded message -----

Hello My Friends:

I'm new to the list. I've been a ham for a little while. I've been in Michigan since 1983. My original call was KP4EU. I was a full profesor at the University of Puerto Rico. Came to Michigan to complete my doctorate in Education. Now working at the State of Michigan's, Department of Education.

I enjoy and study electronics with NRI. Also by building some kits. i.e. Healthkit 101, and lately the QRP Explorer for 40 meters from Oak Hills Research.

Hope to meet all of you on the screen.
Edgar WR8Z

Edgar Leon
eleon@msu.edu
Michigan Department of Education
Migrant Education Consultant
(517)373-4582 Fax:(517)373-4589

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [513] HW9 wanted
Message-ID: <199609261722.SAA22722@mail.enterprise.net>

HW9 wanted to play with. Please email with details.
Bye

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [511] I use BBC-1 for QRP!
Message-ID: <199609261717.SAA22195@mail.enterprise.net>

Thought that would grab you!

Yes, G3YCC is working QRP with the BBC-1. Not, however, Aunie Beeb (BBC for you foreigners!), but an antenna I have come up with. It is the BamBoo Cane 1 bander, hence the name. Remember the mini dipole I published? If you don't remember, check my web page. It is another version of that using bamboo canes instead of ali tubing. Eight foot long, a dipole for 20m, and it works! I will send a .gif file and info to anyone who wants it. So, if you want a dipole for 14mhz that is cheap, like free, excluding a bit of bamboo and a few bits you have in the garage, ask and it shall be given unto you.

First QSO with this dipole was UT5 (SSB, yes me on 'phone!), poor report though 3x3, condx yeuch. Then HAM3UU in Hungary gave me 5x9, again with the MFJ9420 and the BBC-1 at 40 feet. Next QSO was T91EAM, 5x8 then UR5SK 5x9.

Thoughts: make a two element beam (BBC-2), or three....

72

--

Frank G3YCC (G QRP 042)

QRP Web Page:

<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: facmsa@facilities.buffalo.edu (Adams, Mark S.)

Subject: [489] JUNO # in 716?

Message-ID: <1996Sep26.084500.1483.18568@facilities.buffalo.edu>

Sorry for the Bandwidth Gang,

Can anyone tell me if Juno has an access # in the 716 area code? The software I downloaded seems to suggest not.

Thanks, and sorry for the lack of QRP here,

Mark

N2VPK

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: eleon@msu.edu (Dr. Edgar Leon)

Subject: [518] Looking for QRP Plus

Message-ID: <v0153050cae7090db2cec@[204.22.210.53]>

Hi Guys:

I'm on the look for a used QRP Plus. A small Kenwood 120 would also be nice.

Im mostly on 40 meters from 9:00PM to 10PM 7.020

Hpe to CU there!

73's Edgar WR8Z

Edgar Leon

eleon@msu.edu

Michigan Department of Education

Migrant Education Consultant

(517)373-4582 Fax:(517)373-4589

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [539] Low-Noise antennas
Message-ID: <M1075060.096.cqrnu.1.960926181722Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Jay:

I have several low-noise receiving antennas that I use.
I started with a 40m dipole made of scraps of RG62 91 ohm coax. I use the shield, not the center conductor. This dipole is mounted with its center at a corner of my yard, with one leg along the back fence and one leg along the side yard fence. It is just tacked on the wood fence at about eye height. Oddly enough, I get a nice 50-ohm match, so just run RG58 to the shack. Works good on 80m, 40m and 30m. Haven't tried higher bands yet.

Second antenna is the one written up in QST, I think September, 1995. It is a horizontal square about 10 ft in the air, with a special twisted feedline and tuning unit in the center. The idea is noise cancellation.

My third low-noise antenna on 40m is my 30m half-square vertical. I know this flies in the face of expectations, but it works. It may just be that it is far enough to the back of my small lot that it doesn't pick up much power line noise.

Each antenna works at times, and on different noises. I have to try each of them to find the best one for the moment.

Incidentally, I also have the ANC-4 noise canceling unit. Like the antennas, it works at times, and is very noise dependant. My pickup antenna is at the front of the house closest to the power line which runs along the front of the property. I think further experimentation with the size and location of the pickup antenna is still in order.

Anyway, I hope this is of some use to you, Jay.
72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: k5rov@juno.com (JAMES PARSONS)
Subject: [479] Mike Boice <kd0fx@worldnet.att.net>: Virus Warning
Message-ID: <19960926.013536.2143.0.k5rov@juno.com>

----- Begin forwarded message -----

From: Mike Boice <kd0fx@worldnet.att.net>
Subject: Virus Warning
From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [530] Mods for MFJ9420
Message-ID: <199609262135.WAA18165@mail.enterprise.net>

I am modding my MFJ9420 SSB 14mHz rig to add CW. Has anyone the details of the CW add-on that MFJ supply, which they could send me, please. I have added a switch to select CW/SSB by adding capacity across the tuned cct., but wonder what form of keying is used. Possibly keying the 'tune' facility or applying a tone to the mic cct?

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: GREGOIRE@ENDOR.COM (ERNEST GREGOIRE)
Subject: [544] N.E.QRP club: joined,waiting,what next
Message-ID: <199609270114.VAA21753@nss2.CC.Lehigh.EDU>

Hello Gang,

So you joined the club and are waiting to hear if your check has been cashed and when you will be receiving the 72 newsletter, right?

There is no confirmation or anything like that. This is so in order to keep costs down. Look for the next issue of 72, it will be sent out in October. If your check and information has the misfortune to miss the mailing date, you will be getting the February issue as your first newsletter.

Sorry, but this does happen. We do have day jobs and try as we may, some of the recent joiners will miss the mailing in October. We were loosing about .65 cents on each issue but that will be made up with the new dues change to \$10. As you can see there is not a whole lot of margin there.

Don't be discouraged, we will catch up with you sooner or later.

Mean while, cul on the air.

73 de AA1IK
Ernie

de AA1IK N.E.-QRP-C. # 202 (Lead by example, It is better to)

QRP-L member #95. (pull a string than it is to push it.)

Ernie Gregoire
RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@ENDOR.COM
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: bhopkins@polarnet.com (Bruce Hopkins - KL7JAF)
Subject: [481] Nearly Bare Essentials...
Message-ID: <v01540b00ae6feefde205@[204.119.24.82]>

Hi Gang...

I have been following the quest for the "Bare Essentials" glow in the dark radio article and it appears that some may be hot on the trail...

I remembered an article in Mike Bryce's QRP column in 73 magazine and have finally found the critter... This transmitter uses a 6C4 in the oscillator and a 6AQ5 as an amplifier or doubler... Power is about 5 watts out with a 300v B+ supply and details are given to make a HV supply using two 12v transformers back to back... Mike mentions a previous column with a 616 single tube transmitter... The 616 Special was in the May 1987 QRP column and the two tube transmitter is in the March 1990 QRP column... I think I will build the two tube version, twice as much glow...

Now, all I have to do is find some tubes and sockets and get out the gun... Been a long time since I've been able to use the old Weller 260/200 gun with the dual headlights... If you can't find the article I will try to get it into a pdf or jpeg image... Anyone know of a parts source for the glow bulbs and sockets ???

Take care and have fun... Don't put your thermometer near this hand warmer during the Winter FYBO field event...

72/73/oo's - Bruce * KL7JAF

QRP-L #380 QRP-ARCI #9061 G-QRP #9181 Norcal #1543 ARS #14
ISSB #14548 TFO #359 McPig #003 AK-QRP #1

QRP Web Page: <http://www2.polarnet.com/~bhopkins>

"Every Man should learn to play the Flute,
but not well..."

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [475] nec program
Message-ID: <19960925.204050.7479.1.kb0rol@juno.com>

Help,

I downloaded a program - NEC2S - I think its suppose to be a program to design and test antennas. When I run it, it asks for an input file I don't know what this file is suppose to look like - anyone out there with some advice?

BTW, I'm the new NOVICE/TECH+ FOX. I'll let you know when I can get on the air.

Thanks,

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [493] NEC2
Message-ID: <199609261313.NAA29579@chuck.dallas.sgi.com>

NEC2 Manual is online, so to speak. Go to

<http://www.traveller.com/~richesop/nec/>

The manual is also available for Microsoft Word
at the same site on the same home page.

As LB pointed out, you need to know some E&M,
some Physics, and be ready to get some wrong
answers in some situations.

FORTRAN is not an antique LB. :-)

* E&M - Electricity and Magnetism Start with
the 2nd Edition of "Electromagnetic Fields" by
Roald K. Wangsness and the migrate to Jackson. :-)

..

SIG

Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
EMPS QS0s=0 STATES(w/c)=0/0 DX=0

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Dennis Marandos <k1lgq@dennis.mv.com>
Subject: [531] NEW ENGLAND QRP AFIELD Recap (lengthy)
Message-ID: <1.5.4.32.19960926214804.0030d2c0@pop.mv.net>

My captured moment for September 21,1996- QRP AFIELD. =20

The excitement for this year's QRP AFIELD was well worth waiting for
and judging from those who experienced the New England rivalry will attest
to its goodness. It might now have been all Lighthouses, or warehouses, but
it certainly did have a charm of its own. All year long I have tuned and
retuned my QRP transceivers for this day and what could possibly go wrong?
Hey, I am radio-active, nothing can stop me.

I arrived at the city greenery Greeley Park (named after Horace Greeley) in
Nashua, NH and scouted for some tall pines. Here in the northeast, pine
streets are like blades of grass=85they=92re everywhere. Mike Cobuccio -
WA1EYP, and I spotted a pine tree at the edge of the 150 yard field and took
aim with our trusty surgical-rubber sling-shot, bought at the local Wal-Mart

emporium, and on the second try landed a nice 85 foot spot into the coniferous tower. With the my mighty Gusher, the antenna was placed into combat readiness within 15 minutes. We mountain men of the northeast don't waste anytime in being prepared.

The yellow card table was unfolded, the folding chair was pushed into the ground for stability, and the tools of the day were unraveled. The NorCal 40A was attached dutifully to the MFJ 971 which was then gingerly appended to the Gusher, which was then culminated with a jolt of volts from the 7aH gel-cell. The log book was strategically placed to the right (I am left handed so all paper needs to be in front of the writing hand and to the right. Smudges=85you know.) Retractable Cross pen in hand, MFJ-24 hour= clock ticking away, Vibroplex Bug (original #2636801) adjusted, antenna swaying in the breeze=97what=92s left?

Contest time and the calls were loud and clear. First contact was WA4CMI. Great, we=92re getting out! Second QSO was with CH3Y, a special call for an event I=92m still not sure about. Dealing with the police department? I wonder if I can get a QSL or acknowledgment from them=85. Third contact= N2HMN

in New Jersey, followed by KA3P in Pittsburgh, PA. It seems the RF is flowing to the north and south. The vertical long wire (a sloper) was still hanging in the tree pouring out two watts of pure, unadulterated New England power across the country=85around the world. (I always like to think big.) Another contact with K1TJ in Morristown, VA, followed by N2VPK in NY, WA4KAC in MD, W1XH in MA, K3AS in PA, N2YIY in PA, KF2HC in NJ, N1RXT on Mt. Monadnock NH, N2SMH in NJ, AA6UL/4 in VA, W3BNB in MD, AA3LY in PA, WB3GCK in DL, K9UT in IN, KC1GS on Wachusette Mt. MA, K8DSS in OH, AF3V in PA, W3GES in PA, K3TKS in MD, WK8S in MI, VE3FAO in Ont., VE3LCW in Ont., and K8JJC in MI. It was pretty exciting seeing all these good people on 40 meters and I want to thank all of you=85even the dupes!

Now what could have gone wrong during such a brilliant contest such as this? During the Saturday sunshine, while in the public park, were also 35 to 50 fifteen to nineteen year old teenagers who were reenacting Dungeons and Dragons. Their crusade was to run, jump, whoop and yell it up. Okay, there were over THERE, and I am over HERE, about 150 yards apart. WRONG! They wanted my space also. They wanted to "play" where I was and to see if I would notice them. Actually, there were the curious ones for many came to the table and asked, "What=92cha doin=92?" while snapping their gum. Boy= and

girls who were holding duct-tape swords, mallets and hammers in their hands, wanting to know why was I using Morse code. One brave young man, who looked liked he needed a bath, said he had a radio too. My ears perked up and I asked him what his call was? He couldn=92t remember but he was on channel= 19

along with his divorced mother. Oh, I said and turned back to the contest.

After everyone had seen what they wanted, they left. Thank goodness for me, now it=92s peace and quiet. Well, not really. Standing in front of me

for minutes=85not moving, was Patrick. A three year old boy who had no one= to play with and deemed me his friend. HE WOULD NOT GO AWAY. He pulled on the long wire which was connected to the MFJ-971. I said, politely, "Please don=92t touch anything." He said okay, until he saw the cable from my gel-cell and wanted to know why it was red and black. I said, politely, "Please don=92t touch anything." This appeased him until he saw my Xerox paper box filled with field strength meters, a frequency meter, coax, et al. Patrick wanted to see what else was inside. And he proceeded to empty, one piece at a time, the entire contents of the box. Wow, what are you doing=85ran through my mind, but I looked at him and I said, politely, "Please don=92t touch anything." I, at this time, mentioned that his father was looking for him; or maybe his mother wanted him. Patrick said his mother wasn=92t there in the park but that his father wanted him to play= with that nice man in the corner of the field=85me. My eyes lit open and I= nicely said. Why don=92t you go play with your friends. He said he wanted to stay and watch me. Patrick then spied the Oreo=92s I had in my Tupper box. He said that they must taste good because he has had them before. I offered two cookies to him and said make sure your dad gives you permission to eat these. Patrick ran away.

Patrick ran back ten minutes later, mouth all loaded with black cookies crumbs, and said that they were so good, he was wondering if there might be more. Again, he got another two cookies and off he went. That was the end of Patrick, until he came back for the third hand out. I said I am sorry Patrick, you ate them all and now you=92ll have to leave here and not come back till I have over fifty contacts. He didn=92t understand what I meant, but HE LEFT! Nice kid, but what a time to pick to be a three year old!

Did I have a good time? YES! I can=92t wait for the next QRP Winter Field Day on Feb. 22nd sponsored by the Arizona=92s ScQRPians. (There has to be a temperature multiplier!) I know you=92re also waiting for the good times to continue. I have always said that amateur radio has to be instant gratification and that=92s why I love it! You guys are great. I love you,= MAN!

Dennis Marandos - K1LGQ
New England QRP Club
Nashua, NH

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [484] Novice and Tech+
Message-ID: <199609261048.KAA28897@chuck.dallas.sgi.com>

Gang,

I got two people outta this very large group volunteered to be Novice/Tech+ foxes. This is the last call.

So if you are a Novice/Tech+ please step across the line. I can pretty much guarantee you an upgrade on the code by March if you do this.

I promise you:

1. You'll get lot's of air time.
2. You will get lots of Elmers to come forward and help.
3. You will learn what it is like to be on stage at the Met in NYC. :-)
4. You'll get to witness first hand a pileup and you'll be on the receiving end.

Don't let this scare you. It is all in fun and we are here to help you. We want you down on the low end of the band away from the 50KW BC stations. Come on down and fight the other problems with us. Remember the sunspots are coming the sunspots are coming.....

You can probably have WAS QRP 2xQRP by the end of March. What a hoot.

Come on down.

..

SIG

Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com

EMPS QS0s=0 STATES(w/c)=0/0 DX=0

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: lve1@inel.gov (Larry V East)

Subject: [499] QRP and 73 Mag

Message-ID: <2.2.16.19960926143440.18771bda@eloi>

>

>And "73" this month features a cover subtitle under their name:

>QRP: Low Power Fun!

>

Like I've said before... If Uncle Wayne thinks QRP is a good thing, maybe we

are doing something wrong! :-) :-)

Hmmm.... maybe I'll go look for a 160M linear and chase low band DX for kicks!

72/73, Larry W1HUE/7

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>
Subject: [500] Re[2]: winter field day
Message-ID: <9608268437.AA843758743@devmail.sps.mot.com>

30 meters - no contests!.....

but hey, I know that I wasn't the only who called
cq qrp test last saturday on 30 meters... I HEARD YOU!

haha

Tim WA5VQK (for now, maybe) I heard 2-3 week wait also.

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Jerry <frog@sd.cybernex.net>
Subject: [504] Sierra mods ?
Message-ID: <199609261554.KAA03276@pinto.sd.cybernex.net>

Ok now I finally got a ferrite bead, but can't find the info I printed on
the little mod. Does it go on the collector lead of Q6. Someone please jog my
failing memory. Lets see now what was my name again?

Jerry - NR5A

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: bfollett@ditell.com
Subject: [545] SLTuner, efficiency - Rnd. Two
Message-ID: <199609270208.UAA10475@orion.ditell.com>

Gang:

After LB's response to my original post suggesting that I needed a well shielded RF environment for testing, I did another series of tests.

This time, I used the MFJ 949C as a shielded dummy load, put the WM-1 in front of that, and then the SL Tuner, and finally, the xmitter.

Using my TS850, adjusted for 5 watts out in the SLT bypass position, I recorded the following for SLT "Tune for max output" for each band:

80 4 watts
40 4 watts
30 4.2 watts
20 4.5 watts
15 4.9 watts
10 4.9 watts

Not bad, much more consistant with my expectations. HOWEVER:

I started out using the QRP+ with the same setup, and, for example on 40M, I only got 3 watts out in passthru, and 2 watts in SLT tuned position. (remember I was getting 5 watts out with the other test setup in passthru mode)

I then tried my OHR 100, same cables, P/S, and measured 5 watts out in passthru, and 4.9 watts in tuned position -- 40M.

Ok, another variable. Some transmitters are can handle mismatches better than others. No earthshaking news, it just complicates tuner testing.

Nonetheless, LB appears to be right. One needs a tightly sealed RF environment to achieve accurate results. -- among other things---

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Blair Heinzlmeir <blair@supernet.ab.ca>
Subject: [508] Subscribe Blair Heinzlmier VE6BJH
Message-ID: <199609261709.LAA08243@tibalt.supernet.ab.ca>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: bfollett@ditell.com
Subject: [512] Tuner efficiency measurements
Message-ID: <199609261722.LAA27878@orion.ditell.com>

Bob and Gang:

Bob Kellogg recently raised some questions about tuner efficiency, specifically the Saint Louis Tuner, and reported that, in summary, effectiveness was not too hot on the lower bands. He asked me to run some independent tests...

Bob's methodology was to hook a WM-1 wattmeter on the antenna side of the tuner with a dummy load attached, and measure output in "bypass" mode, then switch the tuner in, tune for max output, and measure the output. he defined efficiency as the "smaller reading divided by the larger (X 100).

I added some measurements to my series of tests, and came up with the following:

SETUP: QRP+ into a SL Tuner into a WM-1 Wattmeter into a dummy load.

1. I measured the dummy load directly into an Autek RF-1 across all bands and found it flat at 1.0:1 SWR.

2. I measured the WM-1 on the xmit side with an Autek RF-1 to verify proper load at all frequencies. AHA, anomaly number # 1: impedance is now 52 ohms at 80M, sliding up to 71 ohms at 15Mhz. Tried the same test with my MFJ 949C with my 6-way switch box in the middle. Worse results: 60 ohms at 80M, 80 ohms at 40M and 115 ohms at 15Mhz. Conclusion: The RF trip through any box creates mis-matches.

OK, the power tests (In Watts Out):

BAND	W/O TUNER IN LINE	SLT IN PASSTHRU	TUNER PEAKED W/LOW RF-1 SWR (OFFLINE)	TUNER PEAKED "TUNE FOR MAX READING WM-1"
80	5.0	4.5	1.7	1.7
40	4.8	3.3	4.8	5.2
30	4.3	2.9	4.3	5.2
20	4.0	3.2	4.9	6.3

15	4.6	4.0	4.5	5.3
10	5.1	3.5	4.5	6.0

I won't bore everyone with the efficiency numbers, but there are some interesting conclusions (which could be in BIG error) and questions.

A. When you bypass a tuner, but keep it in-line, you are losing substantial power out! Probably caused by the impedance mis-match I measured on both tuners. This is an eye-opener for me, since my MFJ 949 is always in-line with my R-7 antenna. Gotta make some changes here!

B. Using the L & C of the tuner to balance out the impedance mismatch caused by the SL Tuner in-line to the Wattmeter/dummy load restored power output to approximately the same values as going straight through the wattmeter. Note the exception on 80M, there is not enough inductance to properly set the Tuner.

Question: Why is all that L & C necessary on the lower bands, when I am trying to match a "simple 50ohm dummy load". Yes, I know it isn't really "simple", but still, on 80M, the tuner is straining with maxed out values.

C. Instead of setting the tuner using the RF-1 off-line, then plugging in the xmitter, the last column represents "tune for max". First anomaly is that at max output, the reverse meter reading increases somewhat. Two, notice that I achieve more power out than using the straight thru test in column 2. I assume this is because I am offsetting the impedance raise created by the wattmeter itself. However, it still doesn't explain why "tune for max" required a different impedance than when set with the Autek (and confirmed with the increased reverse meter reading on the tuner).

Ok, Kellogg and I have now clearly confused ourselves, and need some help. Methodology flawed? Other tests suggested? Explanations offered? LB, are we nuts?

73, Bob

 Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10, ARS
 2861 Estates Dr. VOICE: 801.649.6457
 Park City, UT 84060 E-mail: bfollett.ditell.com

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [476] Virus Warning
Message-ID: <1.5.4.32.19960926053603.0066d6d0@postoffice.worldnet.att.net>

I got this forwarded to me from a buddy who subscribes to the BitBucket group. I know there was a lot of whoopla over the last virus warning, but this one at least appears to be reasonable & legit (and it came from a ham).

>>=====

>>

>> DO NOT DOWNLOAD ANY FILE NAMED PKZIP300 REGARDLESS OF EXTENSION.

>>

>> A NEW Trojan Horse Virus has emerged on the Internet with the name

>> PKZIP300.ZIP, so named as to give the impression that this file is a

>> new version of the PKZIP software used to "zip" compressed files.

>> DO NOT DOWNLOAD THIS FILE UNDER ANY CIRCUMSTANCES!! If you install or

>> expand the file, the virus WILL wipe your hard disk clean and affect

>> modems at 14.4 and higher. This is an extremely destructive virus and

>> there is NOT yet a way of cleaning this one up.

>>

>> PLEASE PASS THIS ON TO ANYONE YOU KNOW. >

>>

>>

>>

>>

>

> Stu Greene WA2MOE

> 7537 North 28th Avenue

> Phoenix, Arizona 85051 USA

> wa2moe@doitnow.com

>

>-----

>Submissions: bitbucket@primenet.com

>Administrative requests: majordomo@primenet.com

>WWW: <http://www.primenet.com/~ke7gh>

>Questions: owner-bitbucket@primenet.com

>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Peter Chow <pchow@cisco.com>
Subject: [550] WTB: Heath HW-8
Message-ID: <199609270331.UAA03241@waterboy.cisco.com>

Built or unbuilt. Please email with condition and asking price.

Thanks/72,
KQ6JH

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: ukii@megsinet.net (ukii)
Subject: [548] Zero Beat refresher?
Message-ID: <01BBABF3.44ECE8C0@dial123.megsinet.net>

Hello again.

I was wondering if one of you old flatulators could give me some advice. I never had an "elmer" and learned how to tune cw by ear. Problem is, my hearing is not too good, and with the 49er, there is no tone to compare the RX signal to. Any help in tuning correctly? I used to match MY tone, with the received tone on my IC735.

Thanks alot...

Best 73 de john
N9UKX

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
Subject: [497] RE:10 meter DSB Transmitter
Message-ID: <v03007807ae70300630d7@[132.235.72.11]>

Gang,

Thanks to all who responded, VE3UWL has graciously offered to get a copy of the QRP xmitter to me. This list is great!

vy 73 to all de NS80

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: rright@primenet.com (Roger Hightower)
Subject: [474] Re: 20M Conditions?
Message-ID: <199609260428.VAA08081@primenet.com>

At 08:51 PM 9/25/96 -0700, Ron Giuntini wrote:

>I am about to build a 20M Explorer II. I presently have nothing operating

>on that band and I wonder if anyone could report the conditions for QRP on
>20. Will I be surprised one way or another? Thanks folks...

> Ron KB6GK
> NorCal #1718
> San Francisco
>
>
>

Ron, conditions on 20 were great during QRP Afield...I can only hope they
get better as the cycle improves.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: kd7s@psnw.com (Bill Jones)
Subject: [540] Re: 80mH coil fot the 40-9er
Message-ID: <199609270011.RAA07071@sierra.psnw.com>

Jukka,

I faced the same problem when building my 40-9er. I solved it by using an
old 1960's vintage earphone originally designed to be used with a pocket
transistor radio. I measured the inductance of several and found them to be
somewhere between 65 and 75 mH. I stripped it from its pink plastic case,
soldered a couple leads to it and stuffed it in the board. It works and the
price was right.

>Hi, everyone!

>
>I'm building a 40-9er, but one part is missing.
>It's the 80mH coil. Can't find any here in
>Finland, so is there anyone who can help me
>finding one (or tell me how to make it from a
>surplus stuff)?

=====
Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com
=====

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [537] Re: address
Message-ID: <199609262317.RAA03564@zia.aoc.nrao.edu>

Rich,
The last email address I used was kanga@bright.net
Only a couple of weeks ago and Bill answered right back.

72, Paul NA5N

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: bob.roach@sourcebbs.com (BOB ROACH)
Subject: [487] Re: bare essentials xmtr
Message-ID: <8C91006.000104449E.uuout@sourcebbs.com>

TJW>-> Thomas J. Whalen wrote:

>-> >
>-> > Years ago when I was a Novice way back in 1968 I found an article in
>-> > Popular Electronics called " The Bare Essentials Transmitter". The sin
>-> > 50C5 did a great job and was fun to build. Been trying to find that
>-> > schematic for a long time. A few of us here in town built the xmtr and
>-> > one seems to be able to come up with a working model or plans. Tom WB5
>->

Hi Tom,

I saw something like this recently either in Hambrew magazine or one of
the "big 3". Can't remember now and am late for work. Send me a
reminder via provate E-Mail and I will try to find it.

73 Bob
KE4QOK

* SLMR 2.1a * Veni, Vidi, Velcro (I came, I saw, I stuck around).

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Stan Skelton <sskelton@cln.etc.bc.ca>
Subject: [498] Re: bare essentials xmtr
Message-ID: <Pine.SUN.3.95.960926070844.703A-100000@cln>

You guys should subscribe to "glowbugs" a lot of the folks on that list
should have those plans...

send message to listproc@theporch.com

subject line blank...

body subscribe glowbugs your_name your_call

It's mainly for qrp tube stuff....

Stan...VE7SKT...QPR#32

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: JCoote@aol.com

Subject: [503] Re: feed line question

Message-ID: <960926114910_530292145@emout18.mail.aol.com>

In a message dated 96-09-25 14:50:09 EDT, bobh@p3.net (Bob Hirsch) writes:

<< Hello group;

I use balanced feeders, 450 ohm ladder line to a balanced line tuner.

What are the advantages, disadvantages, of using 300 ohm as compared to 450 ohm, or for that matter what about the 72 ohm balanced feed line? All dissertations, questions, and comments are welcome.

>>

450 ladder, since it is almost "open" is more immune to ice or water detuning the line. 450 ladder may also be less lossy. 300 ohms TV line is easier to mount (standoffs and parts available) and does not attract as much attention from snoop neighbors. I think 72 ohm would be less appropriate for a tuned feeders antenna.

73, Jay

WB6AAM

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>

Subject: [520] Re: feed line question

>What are the advantages, disadvantages, of using 300 ohm as compared to
>450 ohm, or for that matter what about the 72 ohm balanced feed line?

>73 de Bob, AA3ON

Hi Bob, I've measured double the loss in 300 ohm ladder-line compared

to 450 ohm ladder-line. It may be a moot point. Some of us on rec.radio.amateur.antenna have tried everywhere we know to find 300 ohm ladder-line and it looks as if it has gone out of production.

73, Cecil, W6RCA (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [525] Re: feed line question: 72-ohm parallel line
Message-ID: <Pine.SOL.3.94.960926162250.6252D-100000@utkux4.utcc.utk.edu>

I purposely omitted 72-ohm parallel line because it is almost impossible to obtain at power levels higher than typical lab signals. When experimenting with ZL Specials (the single "unfolded" dipole versions need it for the phasing line), I found that all US manufacturers had stopped production a good time back. Since 72 ohms is almost impossible to construct with decent wire size without putting the properties of the insulating material into play, home construction of significant lengths is not too feasible. Hence, not much point in talking about the wholly impractical.

If someone ever comes up with a quantity of 72-ohm transmitting parallel feedline and will part with it (it is almost as rare as a VT-2), I still have some antenna designs I'd like to try. I wish that Beldon, et al. were like Lil Debby and her party cakes: devote one week's production to a specific holiday type--any manufacturer could make a year's supply in a day or two. Which, of course, is why they do not do it--takes a week to tool up for that day.

-73-

LB

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Harvey Winters <ve1hdw@fox.nstn.ca>
Subject: [529] Re: GQRP - I use BBC-1 for QRP!
Message-ID: <1.5.4.32.19960926212545.0066f2c4@fox.nstn.ca>

At 06:37 PM 9/26/96 +0100, Frank G3YCC wrote:

Hello Frank :

>Thought that would grab you!

It did.

>ask and it shall be given unto you.

And yes put me on the mailing list for a picture or diagram.

72/73 de Harvey
Harvey D Winters VE1HDW
G-QRP 8973 QRP-L 115

From owner-qrp-l@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [502] Re: Ground for vertical
Message-ID: <2.2.32.19960926142234.00694ee4@tir.com>

I have read a lot on here regarding what you put under your vertical.
Everything from a single ground rod to wires (somewhere between not so many
and lots).

Not wanting to waste what some call bandwidth - I'd call it disk space and
connection time! - by copying the list, "Wire 4-square summary" and "Wire
4-square summary - Radials" that was posted on the contest reflector is a
very good tutorial on the subject. Some may indicate that contesters are
those high-power-don't-care-if-I-lose-a-watt-here-or-there hams. Not true.
Even contesters want to squeeze every one of their watts out of the
radiating element. As a matter of fact, I have seen more hardline in use at
some of these stations than at QRP stations. And it's not expensive - cable
companies sometimes will give away, or charge scrap aluminum prices, for the
"cable ends" which can be 100' runs that they can't use.

Anyhow, anyone who would like the 19 pages (that's what Eudora says it is)
let me know and I'll forward it out.

If I get over 500 requests, I'll post it to the list.....not.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@tir.com
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: roger.pease@Eng.Sun.COM (Roger Pease)
Subject: [521] Re: Ground for vertical
Message-ID: <199609261825.LAA04980@immigrant.eng.sun.com>

Luke,

I am no expert but having heard what has been said in the past in the qrp-1 group, using the metal roof itself as a ground plane is problematic/difficult. Electrically flakey joints in the metal roof can result in RFI generation.

The solution I heard offered is to just use radials and lay them on top of the metal roof.

I am hoping someone with more hands on knowledge will speak up here.

73,

_Roger KE6PPI

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Paul R. Valko" <prvalko@oakland.edu>
Subject: [519] Re: Looking for QRP Plus
Message-ID: <Pine.OSF.3.91.960926135544.21764C-1000000@saturn.acs.oakland.edu>

On Thu, 26 Sep 1996, Dr. Edgar Leon wrote:

> I'm on the look for a used QRP Plus. A small Kenwood 120 would also be nice.
> Im mostly on 40 meters from 9:00PM to 10PM 7.020

That's better! :-)) But you're off freq, OM. We all hang around 7.040, the official QRP calling frequency.

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>

Subject: [510] Re: Low-noise antennas?

Message-ID: <199609261716.SAA22163@mail.enterprise.net>

An interesting experiment was demonstrated to me some years ago by a 160m addict (G3LIQ), now SK. He tried just about everything to combat noise on top band. What he did on this occasion was to use a BURIED wire for reception (can't remember the length). The signals were way down, but more importantly the noise was even more attenuated. We could here PYs etc on 1.8 CW with ease. There may be some value in considering separate antennas for RX and TX, especially if you use a vertical for transmission on LF. A high gain antenna for TX may NOT be ideal for RX.

What do you think?

--

Frank G3YCC (G QRP 042)

QRP Web Page:

<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996

From: mjsilva@ix.netcom.com (michael silva)

Subject: [506] Re: Nearly Bare Essentials...

Message-ID: <199609261556.IAA26775@dfw-ix6.ix.netcom.com>

.. This transmitter uses a 6C4 in the
>oscillator and a 6AQ5 as an amplifier or doubler...

A venerable arrangement. In the pre-mini-tube days (late '30s) QST had a number of triode/beam-power rigs. One I remember used a 6C5 followed by a 6L6.

>I think I will build the two tube version, twice as much glow...

An excellent engineering judgement :)

>... Anyone know of a parts source for the
>glow bulbs and sockets ???

Antique Electronic Supply is probably the biggest, but not the only, source. Don't have their catalog here but they're in Tempe, AZ.

Let me just second the suggestion by others that anybody interested in these red-eyed marvels should join the "glowbugs" crowd (send "help" to listproc@theporch.com for subscription info), where plans, advice and encouragement are available for the asking.

73,

Mike, KK6GM

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "John A. Evans - N3Q00" <jaevans@cos.cst.titan.com>
Subject: [507] Re: Nearly Bare Essentials...
Message-ID: <199609261606.MAA64808@nss2.CC.Lehigh.EDU>

> A venerable arrangement. In the pre-mini-tube days (late '30s) QST had
> a number of triode/beam-power rigs. One I remember used a 6C5 followed
> by a 6L6.

If you really want a kick, read "The History of QRP" (the correct spelling
of the author's name escapes me at the moment so I won't even try). It
is great bathtub reading. I wish I could get hold of a copy of "The Joy
of QRP" by the same author.

72
john, n3qoo

John A. Evans Chief System Administrator
Office: (719) 528-1800 x164 Titan Client/Server Technologies
Fax: (719) 528-1275 1115 Elkton Dr, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [485] Re: nec program
Message-ID: <Pine.SOL.3.94.960926064500.14196B-1000000@utkux4.utcc.utk.edu>

Brad,

NEC2s is a version of NEC-2, a government developed program for antenna
analysis using the method of moments for very high accuracy. However, the
input for the program requires an ASCII input file employing the typed
equivalent of a deck of cards for antique fortran machines. Each antenna
and environment parameter requires a prefix on a line of type indicating
the type of card, followed by data in a prescribed but unlabeled order.
Without the manual, typing an antenna description is almost impossible.

The easiest way to access NEC-2 is via one of the commercial

implementations. Ads appear in ham magazines for EZNEC by W7EL, NEC-Wires by K6STI, and NEC-Win Basic by Paragon. The first two are DOS programs, the last is for Windows (3.1 or 95).

If you are new to antenna modeling, then you may wish to do a little background reading on the process. You can read an introduction to basic modeling of antennas written for MININEC, but virtually applicable to NEC-2 without significant change, in an article I did for Antenna Compendium, Vol. 3, reprinted in Vertical Antenna Classics, both volumes by ARRL. The latter volume has an article by W7EL on the limitations of MININEC. NEC-2 has its own limitations.

Hope this information is useful.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215
1434 High Mesa Drive	/	\	\	\	----	/\	(Hm)	(423)	938-6335
Knoxville, Tennessee	/\	\	\	\	/	/	(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\	\				cebik@utk.edu
QRP/ARCI 2572	G-QRP	7203	CQC	125	NEQRP	347	NORCAL	1111	MIQRP 1432
NWQRP 401	ARRL Life: Educational Advisor				QCWA	13211		10-10	41159

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: KT3A@aol.com
Subject: [546] Re: NEW ENGLAND QRP AFIELD Recap (lengthy)
Message-ID: <960926222126_111959665@emout15.mail.aol.com>

Dennis,

Children say the funniest things.
Where was Art Linkletter when you needed him? :-)

They find it amazing when you tell them you are talking to someone hundreds of miles away when it appears that you are just tapping that funny looking switch. I had 2 five year olds stop at my portable station while I was set up at a school yard this summer. I had a 40 meter dipole up

in the trees at only 15 feet. They pointed at it and asked if that was a power line. I told them that was an antenna. Well, the utility company must have brainwashed them, because they skipped off telling me I was going to be electrocuted! It's tough to copy CW and keep from laughing at moments like these. :-)

72,
cameron, kt3a

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: KFGlynn@aol.com
Subject: [541] Re: QRP Afield Results
Message-ID: <960926201515_111845754@emout08.mail.aol.com>

Hi Mark,

I worked you during the test. I also had the opportunity to work Joe N2CX and some of the the NJ QRP gang at Sandy Hook.

Unfortunately I forgot my 20M rig power cable, but did realize it on the way to the site. Did not feel like asking the cabbie to turn around, but I sure wish I did. STuck on 40M all day.

73 Kevin KB2TE0

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Jim Lowman <jmLowman@ix.netcom.com>
Subject: [532] Re: QRP-L members published widely
Message-ID: <199609262204.PAA09698@dfw-ix7.ix.netcom.com>

At 06:37 PM 9/25/96 -0500, you wrote:

>By all means support the clubs and their publications, (I think Chuck may be
>ahead of me), but last count I had membership in four QRP Clubs, and subscribe
>to another commercial QRP magazine, "Hambrew". I should join a couple more
>who publish. After all, you get healthy reading all year for the price of one
>first run movie.

Not sure if this is a record, but low-power operating has such a grip on me that I belong to *eight* QRP clubs! :-)

ARCI, Norcal, MI-QRP, NW-QRP, Colorado QRP, NE-QRP, BC-QRP and G-QRP

...and FISTS!

72 de Jim - KF6CR

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: JUKKA AHLGREN <JUKKAA@jypoly.fi>
Subject: [477] Re: Sierra blues
Message-ID: <s24a4dd0.068@jypoly.fi>

>not counting human error. Anyway, while
>installing the coax jumpers for
>W1 and W2, my friend (electronics major) and I
>(music major) found a
>ground (short) in W2.
>
>...Is that supposed to be there?

Hello, Brent.

I looked at the schematics and yes, there
is (and should be) a ground in W2 for DC.
It goes thru the T1 primary coil. But it is not a
ground for RF signal coming from the antenna. So
don't worry. I believe Your sierra will work
fine.

73, Jukka OH6SC/OH8NGF

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "David D. Meacham" <ddm@datatamers.com>
Subject: [526] Re: Sierra mods ?
Message-ID: <Pine.LNX.3.91.960926130754.25558B-100000@dt1.datatamers.com>

Jerry,
The bead goes on the base lead of the driver (2N2222A).
72, Dave, W6EMD

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [495] RE: Solar Photos
Message-ID: <01BBAB83.C00466C0@muenzlerk.uthscsa.edu>

Gang,
Daily images in H-alpha can be viewed
at the Big Bear Solar Observatory. These
are available for FTP at
<ftp://suncub.bbso.caltech.edu/hafulld>

This contains a list of directories with the
two digit year followed by the month. Images
are available in JPG and FTS formats.

***** IMPORTANT *****

Please download images before 15:00 UTC each day
to prevent loading of the image processing equipment.

Kevin, WB5RUE

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [527] Re: Tuner efficiency measurements
Message-ID: <Pine.SOL.3.94.960926164152.6252G-100000@utkux4.utcc.utk.edu>

Since I was asked, I'll venture some speculation--actually, in this case,
considered guesses based on some facts that are suggestive but not
conclusive.

Best guess for all phenomena that appear anomalous: RF on the outside of
the coax. Test set-up seems not to be RF tight, with a good RF ground for
the system. The rise in reflected power suggests that a mismatch is
occurring as the power rises. Not sure of the power capability of the
dummy load, but its construction also can let some RF be on the outside of
the can or whatever it is in. If reflected power rises, then so too does
forward power so that the net to load is the actual power output of the
transmitter--ignoring line losses in this short cable test set-up.

Although the WM-1 is a fine in-line wattmeter for monitoring forward and
reflected power, it is not a lab grade instrument. That big meter face
alone ought to leak some RF, even at QRP levels.

Best way to test a system with a "something" in the line and out of the

line is to actually take it out of the line. Make the test set-up RF tight, with a good rf ground. Use equipment designed for the task. Now let's pass the question to Paul, whose test experience far outstrips mine. I have a feeling I can learn a lot more about what is going on here. And he is the one who really knows about test set-ups.

-73-

LB

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: PaulKB8N@aol.com
Subject: [547] Re: Tuner efficiency measurements
Message-ID: <960926225028_318405042@emout15.mail.aol.com>

Great discussion, guys. The only way I have been able to gauge a tuner's effectiveness and efficiency under various load conditions is to take field strength measurements at the antenna site itself. This requires at least two field strength meters for balanced antennas, as one is placed close to the balanced feedline to measure inbalance (i. e. noncancellation of opposing currents), and the other is placed a wavelength or so away from the antenna.

I have observed some huge differences in readings and have gone back and rechecked previous readings just to be sure. The capacitive T network is a real culprit at low feedpoint impedences. This also is a great way to measure the effectiveness of baluns under various conditions. I built a "lab standard" tuner with oversized components and a large balun to serve as my "most efficient" model. Efficiency of small tuners at high power levels (100W) is particularly bad.

I know my methodology isn't "pure" from an engineering perspective, but it has given me some interesting data points.

72, Paul, KB8N

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [494] Re: Virus Warning
Message-ID: <Pine.OSF.3.91.960926084825.850A-100000@saturn.acs.oakland.edu>

On Wed, 25 Sep 1996, Mike Boice wrote:

> I got this forwarded to me from a buddy who subscribes to the BitBucket
> group. I know there was a lot of whoopla over the last virus warning, but
> this one at least appears to be reasonable & legit (and it came from a ham).
> >>=====

Appearances are deceiving! This is a REALLY OLD story that has circulated since 1989 [did you know there was an internet back then? :-)] under different headings. PKWARE's PKZIP Program is probably the most used utility on the planet. Every now and then, somebody renames a destructive program as a "new" version of PKZIP.

The "Trojan Horse" is a particularly mean-spirited method of getting a virus aboard your computer.

It's good to keep people on their toes, but, just like that "Virus Warning" a few weeks back, QRP-L has also heard this one several time before, too.

Please let this be the last message about this thread, here's my ObQRP to save it.

73 =paul= wb8zjl <===== Watch this space!

ObQRP - It is really exciting to see the QRP-L get back on track after the summer doldrums. Fox Hunt chatter and EMPS reports will soon flood the list as we all get back to actually OPERATING! I worked a 2x QRP, 80M QSO last night just to warm up to EMPS. I also pulled the 49er out of the bag that I carried in when I took it to the Swap and Shop a week ago. Time to give it another whirl!

> >>
> >> DO NOT DOWNLOAD ANY FILE NAMED PKZIP300 REGARDLESS OF EXTENSION.
> >>
> >> A NEW Trojan Horse Virus has emerged on the Internet with the name
> >> PKZIP300.ZIP, so named as to give the impression that this file is a
> >> new version of the PKZIP software used to "zip" compressed files.
> >> DO NOT DOWNLOAD THIS FILE UNDER ANY CIRCUMSTANCES!! If you install or
> >> expand the file, the virus WILL wipe your hard disk clean and affect
> >> modems at 14.4 and higher. This is an extremely destructive virus and
> >> there is NOT yet a way of cleaning this one up.
> >>
> >> PLEASE PASS THIS ON TO ANYONE YOU KNOW. >
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> >-----
> >Submissions: bitbucket@primenet.com
> >Administrative requests: majordomo@primenet.com
> >WWW: http://www.primenet.com/~ke7gh
> >Questions: owner-bitbucket@primenet.com
> >
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From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Joe Gervais <vole@primenet.com>
Subject: [490] Re: winter field day
Message-ID: <199609261303.GAA24912@primenet.com>

Duane (AB4BE) wrote:

>
> hey I live in Florida no such thing as winter here in south Florida.
> For the temp. multiplier well I have an answer for that one....my
> brother in law runs a produce packing house down here and the cooler is
> kept at 34 degrees I think I'll work some of the event from there (ha ha

Oh fine, give away my secret for getting the temp multiplier
here in Phoenix... :-)

> why arn't the WARC Bands allowed in the winter field day contest ?

Because big men in dark suits will show up at your door and
flog you with a Spam loaf if you do. :-)

Seriously, it's more of a tradition. Gentleman's agreement,
if you will. I've used the WARC bands as safe-havens from
big contest weekends (Sweepstakes, anyone?) and have always
been grateful they were off limits.

> I bought a 30 meter qrp kit (oh boy) are all contest this way
> no warc bands ? if so looks like i bought the wrong kit...(ah crud)

Right kit, but not for typical contesting I'd say. But 30m

is hands-down my favorite band, so I think you made an excellent choice. And you can probably borrow someone's QRP rig for a weekend? Pizza goes far as a way of bribing people, I've noticed. :-)

Anyway, please don't feel let down. Solutions abound. Let me know if you can't swing a rig. We'll figure something out.

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPion #7

"Sleep is for people who can't handle caffeine."

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Joe Gervais <vole@primenet.com>
Subject: [501] Re: winter field day
Message-ID: <199609261500.IAA01593@primenet.com>

Tim (WA5VQK) wrote:

>
> 30 meters - no contests!.....
>
> but hey, I know that I wasn't the only who called
> cq qrp test last saturday on 30 meters... I HEARD YOU!

Well, it's good to know that at least *someone* was having a good time with my call last weekend. Let me know if he/she QSL's. This could save me a small fortune in postage. :-)

Truth be told, I had a cunning plan to get on the air despite attending a wedding out of town. There was a 1.5 hour gap between the wedding ceremony and the reception - just enough time to toss a dipole in a tree and bag a few QSO's. My wife and I drove up to a park on the hill after the ceremony and I was about to unload my gear when she made a brilliant observation: Our kids were staying with friends, we were all alone, and we had about an hour before we had to be anywhere.... Yes folks, SOME things are still better than ham radio. ;-)

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ SCQRPion #7

From owner-qrp-1@Lehigh.EDU Thu Sep 26 23:13:20 1996
From: Rogerio Gonzaga <gonzaga@med.up.pt>
Subject: [486] Re: Yaesu FT-7
Message-ID: <198701271111.MAA05001@hipocrates.med.up.pt>

Hi, Patrick,

about your message...

Hi All,

Does anyone use a Yaesu FT-7 for a QRP rig? I have a chance to pick one up and was wondering if it was a good rig and what they would be worth now.

Thanks, -Patrick N10CJ...,

... I have tried once an FT-7B, that differs from the FT-7 in having a 50 Watts PA. I had to give up as although I could lower quite easily the CW output power to 5 watts (I remember I had to open the case to set up the respective trimmer) I could not lower the SSB output to QRP levels, I only could find a Mic gain trimmer that was not effective to lower enough the SSB power. As the FT-7 output is about 10 watts, SSB or CW, it should be easy to set the power to QRP levels, the SSB QRP tolerated output being 10 watts and the CW output being settable by a trimmer.

Otherwise it is a beautiful rig, with a good receiver, that can accomplish the low-power work quite well. It has an overprotected front end against high SWR, as most of solid state rigs from that epoch. I think it can be a good deal.

Best 72/73 de Roger, CT1ETT